

[illegible]

Improved techniques for reducing the time and cost associated with producing compiler products are disclosed. A programming system including an enhanced compiler suitable for compilation of source programs is disclosed. The enhanced compiler can be used to compile source programs so that template (or generic) instances already available from the libraries are not recreated. The enhanced compiler can efficiently compile a request to create an instance by determining whether the instance is already available in one of the libraries. If the instance is already available from one of the libraries, the instance need not be created. In comparison with conventional models, the enhanced compiler can access libraries directly without requiring a significant amount of preparatory work and/or costly operations such as preparation of options files and transformation of instance names to linker symbol names. As a result, the enhanced compiler is more efficient (faster) than convention compilers.